Global Horizon
TRAINING CENTER

Training Course:
Understanding Electricity Market Regulations & Economic Regulatory Analysis

27 September - 1 October 2026
Dubai (UAE)

Training Course:
Understanding Electricity Market Regulations & Economic Regulatory Analysis

Training Course code: EN236618 From: 27 September - 1 October 2026 Venue: Dubai (UAE) - Training Course Fees: 5830 Euro

Introduction

Electricity markets are undergoing significant transformation driven by market liberalization, renewable energy integration, technological development, evolving regulatory frameworks, and increasing expectations for efficiency, reliability, affordability, and sustainability. Understanding how electricity markets operate and how economic regulation influences market participants is therefore essential for professionals working within utilities, regulatory authorities, energy companies, government entities, and related organizations.

This training program, designed by Global Horizon Training Center, provides participants with a comprehensive understanding of electricity market structures, regulatory frameworks, and the principles of economic regulatory analysis. It examines the relationship between electricity generation, transmission, distribution, retail markets, regulators, system operators, and consumers.

The program explores regulatory economics, electricity pricing and tariffs, market competition, network regulation, revenue requirements, cost allocation, incentive-based regulation, market monitoring, and regulatory decision-making. Participants will also examine the regulatory implications of renewable energy, distributed energy resources, energy storage, and emerging electricity-market models.

The course is structured to combine regulatory concepts with economic analysis, enabling participants to better understand regulatory decisions, evaluate their economic implications, and contribute effectively to electricity-sector policy and regulatory processes.

Objectives

By the end of this training program, participants will be able to:

- Understand the structure and operation of modern electricity markets.
- Explain the roles and responsibilities of electricity-sector regulators and market participants.
- Understand different electricity market models and regulatory frameworks.
- Analyze the economic principles underlying electricity regulation.
- Understand natural monopolies and the rationale for network regulation.
- Explain electricity pricing, tariff structures, and cost-recovery principles.
- Understand revenue requirements and regulated asset concepts.
- Evaluate different approaches to cost-of-service and incentive-based regulation.
- Understand wholesale and retail electricity market mechanisms.

- Analyze regulatory approaches to transmission and distribution networks.
- Understand market monitoring, competition, and market-power considerations.
- Assess the economic implications of regulatory decisions.
- Understand regulatory approaches to renewable energy and emerging technologies.
- Apply structured economic analysis to regulatory issues and decisions.

Course Methodology

The program adopts an interactive and analytical learning methodology combining electricity-market concepts with practical regulatory and economic analysis.

The methodology includes:

- Instructor-led presentations and technical explanations.
- Electricity-market and regulatory framework analysis.
- Economic and financial examples.
- Tariff and pricing illustrations.
- Regulatory case studies.
- Comparative analysis of international regulatory models.
- Scenario-based discussions.
- Group discussions on regulatory challenges.
- Simplified economic analysis exercises.
- Daily reviews and knowledge consolidation.

Organizational Impact

Participation in this program can support organizations in strengthening their regulatory, economic, and strategic capabilities within the electricity sector. Organizational benefits include:

- Improved understanding of electricity market structures and regulations.
- Stronger regulatory and economic analysis capabilities.
- Better assessment of electricity tariffs, pricing, and revenue frameworks.
- Improved engagement with regulatory authorities and market participants.

- Enhanced understanding of regulatory risks and their financial implications.
- Better-informed investment and strategic decision-making.
- Improved capability to assess regulatory proposals and consultations.
- Greater awareness of international electricity regulatory practices.
- Stronger alignment between technical, financial, commercial, and regulatory teams.
- Enhanced preparedness for electricity-market reforms and energy transition developments.

Target Audience

This program is suitable for:

- Electricity Regulatory Authority Professionals
- Energy and Electricity Ministry Personnel
- Utility Managers and Professionals
- Regulatory Affairs Managers and Specialists
- Electricity Market Analysts
- Energy Economists
- Financial and Economic Analysts
- Tariff and Pricing Specialists
- Strategy and Planning Professionals
- Commercial Managers
- Power Generation Professionals
- Transmission and Distribution Professionals
- Energy Policy Professionals
- Investment and Business Development Professionals
- Legal and Compliance Professionals working in the energy sector
- Renewable Energy Professionals
- Consultants and Advisors in electricity and energy markets
- Professionals involved in electricity-sector reform and market development

Course Outline

Day 1 - Electricity Markets and Regulatory Fundamentals

- Structure of the electricity supply industry
- Generation, transmission, distribution, and retail activities
- Electricity as an economic commodity
- Traditional versus liberalized electricity markets
- Electricity market participants and their roles
- Role and responsibilities of regulatory authorities
- Principles of effective electricity regulation
- Regulatory independence, transparency, and accountability
- Introduction to electricity-sector reform and market liberalization

Day 2 - Electricity Market Design and Economics

- Fundamentals of electricity market economics
- Supply, demand, and electricity price formation
- Wholesale electricity market structures
- Bilateral contracts and organized electricity markets
- Day-ahead and real-time market concepts
- Market clearing and marginal pricing
- Capacity and ancillary service concepts
- Competition and market-power considerations
- Market monitoring and performance indicators

Day 3 - Economic Regulation, Tariffs and Pricing

- Economic rationale for electricity regulation
- Natural monopoly characteristics of electricity networks
- Principles of cost-of-service regulation

- Revenue requirement fundamentals
- Regulated asset base concepts
- Operating and capital expenditure considerations
- Cost allocation and tariff design
- Electricity tariff structures
- Cost-reflective pricing and affordability considerations

Day 4 - Regulatory Analysis and Performance Regulation

- Principles of economic regulatory analysis
- Rate-of-return versus incentive-based regulation
- Price-cap and revenue-cap regulation
- Performance-based regulatory frameworks
- Efficiency benchmarking
- Quality-of-service regulation
- Regulatory treatment of investments
- Assessing financial and economic impacts of regulatory decisions
- Regulatory risk and uncertainty
- Regulatory reporting and compliance

Day 5 - Energy Transition and Future Electricity Regulation

- Regulatory implications of renewable energy integration
- Distributed energy resources and prosumers
- Energy storage and electricity-market participation
- Smart grids and digitalization
- Demand-side management and demand response
- Regulatory considerations for electricity interconnections
- Consumer protection and affordability

- Emerging electricity-market models
- Future trends in electricity regulation
- Integrated regulatory analysis and course review

Registration form on the Training Course:
Understanding Electricity Market Regulations & Economic Regulatory Analysis

Training Course code: EN236618 From: 27 September - 1 October 2026 Venue: Dubai (UAE) - Training Course Fees: 5830 Euro

Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

Delegate Information

Full Name (Mr / Ms / Dr / Eng): ....
Position: ....
Telephone / Mobile: ....
Personal E-Mail: ....
Official E-Mail: ....

Company Information

Company Name: ....
Address: ....
City / Country: ....

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): ....
Position: ....
Telephone / Mobile: ....
Personal E-Mail: ....
Official E-Mail: ....

Payment Method

- [ ] Please find enclosed a cheque made payable to Global Horizon
- [ ] Please invoice me
- [ ] Please invoice my company

Easy Ways To Register

Telephone: +201095004484 to provisionally reserve your place.

Fax your completed registration form to: +20233379764

E-mail to us : info@gh4t.com or training@gh4t.com

Complete & return the booking form with cheque to:Global Horizon
3 Oudai street, Aldouki, Giza, Giza Governorate, Egypt.